

13th & 14th MONTHLY PROGRESS REPORT  
IMAGE QUALITY METER

June 17 through 17 August 1961

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During the period of this report all of the features of the Image Quality Meter were demonstrated to visiting Government Engineers charged with monitoring this contract. The performance of the resolution feature was satisfactory on high contrast, low granularity material but poor on low contrast, grainy films. Granularity and acutance measurements are possible on a much wider variety of photographic materials.

Several additions to the Image Quality Meter that will improve its ability to work with low contrast, grainy material have been submitted to the Government as new scope.

These features included:

- a. A variable cutoff, low pass filter to remove unwanted high frequency portions of grain noise from the resolution computer input.
- b. A variable computing threshold to allow the operator to select the amplitude of the signal required for computation.
- c. A manually variable computing aperture gate to permit computation only within selected portions of the sweep.
- d. Viewing optics to permit the operator to see what portion of a film is actually under the scanning aperture.

During this period preliminary calibration runs have been made and good correlation with hand computed values was obtained. Good readable scales should result from these preliminary data.

Work on the Handbook on Image Quality, also contracted for in this task order, has begun and much data has already been gathered from outside sources.

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